

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	139	measur\$4 near4 radical SAME plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:19
L2	112	(carbonaceous OR hydrocarbon OR carbon) WITH (precursor OR source OR supply) WITH ratio WITH plasma WITH (gas)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:25
L3	32665	(nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:26
L4	24	(carbonaceous OR hydrocarbon OR carbon) WITH (precursor OR source OR supply) WITH ratio WITH plasma AND L3	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:26
L5	7	(align\$4 OR orient\$6) WITH (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT) SAME tilt\$4 WITH electric near4 field	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:41
L6	7	(align\$4 OR orient\$6) WITH (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT) SAME (tilt\$4 OR oblique OR slant OR askew) WITH electric near4 field	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:42

L7	16	(align\$4 OR orient\$6) WITH (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT) SAME (tilt\$4 OR oblique OR slant OR askew) SAME electric near4 field	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:42
L10	2	((kano near2 hiroyuki).inv. OR (hiramatsu near2 mineo).inv. OR (hori near2 masaru).inv.) AND (process OR method).clm. AND (radical OR (plasma near4 specie)).clm. AND (nano\$6).clm.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 20:56
S1	3	(nano adj2 wall OR nanowall) AND hydrogen near2 radical	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 16:37
S2	6	(nano adj2 wall OR nanowall) and plasma near3 (radical OR species)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 16:38
S3	66	(nano adj2 wall OR nanowall) and plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 16:38
S4	0	(nano adj2 wall OR nanowall) and remote WITH plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 16:39
S5	0	(nano adj2 wall OR nanowall) and remote\$3 WITH plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 16:39
S6	1	10/569838.app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:23
S7	8	(nano adj2 wall OR nanowall) AND source WITH carbon WITH hydrogen	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:42
S8	10	(nano adj2 wall OR nanowall) AND (source OR supply) WITH ("CH.sub.4" OR methane)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:43
S9	12	(nano near2 wall) AND (source OR supply) WITH ("CH.sub.4" OR methane)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:43
S10	2	10/526486	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:47

S11	137	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR graphite near3 wall OR graphite near3 sheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND hydrogen near2 radical	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:57
S12	1	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR graphite near3 wall OR graphite near3 sheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND (methane OR "CH.sub.4") WITH (preferred OR preferably)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:58
S13	877	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR graphite near3 wall OR graphite near3 sheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND plasma AND fluorin\$6	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:58
S14	2	S13 and 427/903.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:59
S15	26749	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR graphite near3 wall OR graphite near3 sheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:59
S16	10	S15 and 427/903.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 17:59
S17	2526	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND (methane OR "CH.sub.4")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:01
S18	4	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND (carbon adj2 fluorin\$4 "CF.sub.4")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:01

S19	477	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND (carbon adj2 fluorine\$4 OR "CF.sub.4")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:01
S20	288	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CF.sub.4")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:01
S21	16	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CF.sub.4") WITH source	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:02
S22	329	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CH.sub.4" OR methane) WITH (precursor OR source OR supply) WITH carbon	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:10
S23	5	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CH.sub.4" OR methane) WITH (precursor OR source OR supply) WITH carbon SAME (econom\$6)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:11
S24	1	(nano near3 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon near3 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CH.sub.4" OR methane) WITH (precursor OR source OR supply) WITH carbon WITH (preferabl\$3 OR preferred OR advantag\$4 OR benef\$6)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:14

S25	0	(nano adj4 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon adj4 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CH.sub.4" OR methane) WITH (precursor OR source OR supply) WITH carbon WITH (preferabl\$3 OR preferred OR advantage\$4 OR benef\$6)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:17
S26	276	(nano adj4 (wall OR sheet) OR nanowall OR nanosheet OR carbon near3 sheet OR carbonwall OR carbon adj4 wall OR buckywall OR bucky near3 (wall OR sheet) OR fullerene near4 (sheet OR wall)) AND ("CH.sub.4" OR methane) WITH (precursor OR source OR supply) WITH carbon	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:17
S27	486	two near3 dimension\$4 WITH (nano near4 structure OR nanostructure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:21
S28	72	two near3 dimension\$4 WITH (nano near4 structure OR nanostructure) AND (methane OR "CH.sub.4")	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:21
S29	1621	carbon near2 ribbon	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:22
S30	1021	carbon near2 ribbon SAME nanostructure OR nano?structure	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:22
S31	7	carbon near2 ribbon SAME (nanostructure OR nano?structure)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:22
S32	68	(methane OR "CH.sub.4") SAME (fluorocarbon OR fluoro?carbon) SAME (precursor OR ((supply OR source) WITH carbon))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:25
S33	75	(methane OR "CH.sub.4") SAME (fluorocarbon OR fluoro?carbon) SAME (precursor OR ((supply OR source) WITH (hydrocarbon OR carbon\$6)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:29
S34	304	(methane OR "CH.sub.4") SAME (fluorocarbon OR fluoro?carbon OR "C.sub.2F.sub.6" OR hexafluoroethane OR "CF.sub.4" OR tetrafluoromethane OR "CHF.sub.3" OR trifluoromethane) SAME (precursor OR ((supply OR source) WITH (hydrocarbon OR carbon\$6)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:34

S35	11	S34 and (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:35
S36	5	(methane OR "CH.sub.4") SAME (fluorocarbon OR fluoro?carbon OR "C.sub.2F.sub.6" OR hexafluoroethane OR "CF.sub.4" OR tetrafluoromethane OR "CHF.sub.3" OR trifluoromethane) SAME (precursor OR ((supply OR source) WITH (hydrocarbon OR carbon \$6))) WITH typical	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:38
S37	108	(methane OR "CH.sub.4") SAME ("C.sub.2F.sub.6" OR hexafluoroethane OR "CF.sub.4" OR tetrafluoromethane) SAME ("CHF.sub.3" OR trifluoromethane) SAME (precursor OR ((supply OR source) WITH (hydrocarbon OR carbon\$6)))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:39
S38	62	(methane OR "CH.sub.4") SAME ("C.sub.2F.sub.6" OR hexafluoroethane OR "CF.sub.4" OR tetrafluoromethane) SAME ("CHF.sub.3" OR trifluoromethane) SAME (precursor OR ((supply OR source) WITH (hydrocarbon OR carbon\$6))) WITH (equivalent OR obvious OR operable))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:52
S39	861	(concentration OR amount) WITH (radical OR (plasma near3 specie)) SAME ((flow OR feed) near2 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:58
S40	0	(concentration OR amount) WITH (radical OR (plasma near3 specie)) SAME ((flow OR feed) near2 rate) WITH (source OR precursor) WITH (radical OR (plasma near3 specie))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:59
S41	0	(concentration OR amount) WITH (radical OR (plasma near3 specie)) SAME ((flow OR feed) near2 rate) WITH (source OR precursor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:59
S42	162	(concentration OR amount) WITH (radical OR (plasma near3 specie)) SAME ((flow OR feed) near2 rate) SAME (source OR precursor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 18:59
S43	92	S39 and remote near3 plasma	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:01

S44	96	remote near3 plasma and (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:04
S45	1	("6383896").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2009/11/21 19:06
S46	190	radical WITH (concentration OR amount) SAME (feed near4 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:09
S47	27	radical WITH (concentration OR amount) WITH (feed near4 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:12
S48	32	radical WITH (concentration OR amount) WITH (feed\$4 near4 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:12
S49	169	(concentration OR amount) WITH (radical OR (plasma near3 specie)) SAME control\$4 WITH ((flow OR feed\$4) near2 rate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:14
S50	9959	((carbon WITH fluorine) WITH radical)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:44
S51	0	((carbon WITH fluorine) WITH radical) and 427/903.ccls.	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:45
S52	59	S50 and (nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:45
S53	32665	(nanostructure OR nano\$structure OR nano\$object OR nanotube OR nano\$tube OR nanoconduit OR nano\$conduit OR nanopipe OR nano\$pipe OR (tubular near fullerene) OR nanofiber OR nano\$fiber OR nanowire OR nano\$wire OR nanorod OR nano\$rod OR nanowhisker OR nano\$whisker OR (bucky near tube) OR (buckytube) OR SWNT OR MWNT)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:48

S54	951	((fluorine OR hydrogen) WITH (radical OR (plasma near3 specie))) AND S53	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:49
S55	100	((fluorine AND hydrogen) WITH (radical OR (plasma near3 specie))) AND S53	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:50
S56	100	(fluorine) WITH (radical OR (plasma near3 specie)) AND hydrogen WITH (radical OR (plasma near3 specie)) AND S53	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:52
S57	383	(fluorine) WITH (radical OR (plasma near3 specie)) AND hydrogen WITH (radical OR (plasma near3 specie)) AND neutral WITH (radical OR (plasma near3 specie))	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:53
S58	36	S53 and (fluorine near3 plasma and hydrogen near3 plasma)	US-PGPUB; USPAT; USOCR	ADJ	ON	2009/11/21 19:59

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	2	((kano near2 hiroyuki).inv. OR (hiramatsu near2 mineo).inv. OR (hori near2 masaru).inv.) AND (process OR method).clm. AND (radical OR (plasma near4 specie)).clm. AND (nano\$6).clm.	US-PGPUB; USPAT; UPAD	ADJ	ON	2009/11/21 20:57

**11/ 21/ 2009 8:59:07 PM****C:\ Documents and Settings\ mlouie\ My Documents\ EAST\ Production****\ Kano\_10569838\_forming\_nano\_wall\_with\_plasma\_fluoride\_carbon\_source02.wsp**